

**EFFICACY REVIEW**  
by Mark Suarez, Entomologist - IB

**DATE:** 15 August 2005

**EPA REG. NUMBER:** 279-3168

**PRODUCT NAME:** Talstar PL Granular Insecticide

**REGISTRANT:** FMC Corp. Agricultural Products Group

**RM:** George LaRocca, RM13  
**REVIEWER:** Linda Deluise

**DECISION:** 338195  
**DP BARCODE:** 316072

**ACTION:** R34

**ACTIVE INGREDIENT(S):** 128825, Bifenthrin.....0.2%

**TYPE:** Granular

**OPPTS GUIDELINE(S):** 810.1000  
810.3000  
810.3500

**MRID:** 46508101

**GLP ?:** No.

**SITE(S):** Outdoor premise treatment.

**PESTS(S):** Scorpions

**STUDY APPLICATION RATE:** 0.2 lb AI/acre

**LABEL APPLICATION RATE:** 0.2 – 0.4 lb AI/acre

**STUDY SUMMARY(IES):**

The registrant submitted a study of the efficaciousness of the subject formulation against the striped centipede, *Centuroides vittatus*, when applied at the lower limit of the label application rate. Centipedes were placed into a 3.25" diameter Petri dishes with sifted clay soil that had been either been untreated (Control) or treated with 0.0602 g of Talstar granules (Treatment) 24 hours prior to study initiation. The results of the trials are presented in Table 1.

Treatment	% Mortality (Hours after Treatment)				
	2	4	8	12	24
Control	0	0	0	5	5
Talstar Granular	50	95	100	100	100

**Table 1.** Mortality of Talstar P Granular and Control over time.

**ENTOMOLOGIST'S COMMENTS AND RECOMMENDATIONS:**

The data submitted support the desired label claims for scorpion kill claims. Control mortality was within acceptable limits and the formulation produced adequate knockdown and mortality of scorpions within a relatively short duration.

**Recommendations:**

1. Scorpions may be added to the label.
  - a. The addition of scorpions to the application rate table is acceptable.
  - b. The application rates presented in the table for both residential (0.2 lb AI/acre) and commercial/industrial (0.4 lb AI/acre) sites are acceptable.
  - c. The additional directions provided as a footnote are acceptable.
2. The modifications to the warranty statement are acceptable.

Enclosure

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